

## ABSTRACT

Methods and apparatus implementing and using techniques for creating a permanent sub-network connection in a network of connected nodes. A route including a working path for a permanent sub-network connection is defined in the network from an ingress node to an egress node. A time out period to be associated with the permanent sub-network connection is defined. The time out period defines a time over which a failure in the permanent sub-network connection is permitted to be corrected prior to a tear down of the permanent sub-network connection. The route is provisioned. A route description is distributed to each node along the route and each node along the route is configured in accordance with the route description to provide data traffic services from the ingress node to the egress node. Methods and apparatus implementing and using techniques for deallocating resources in a network of connected nodes are also described.

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